

## Release A EDF Software Development Environment Baseline 5/15/96

Function	Product Name/ Vendor/ Features	Platforms Supported by Vendor	Vendor's Revision Level	Comments
Operating Systems	Solaris	Sun	2.4	
	Sun OS	Sun	4.1.4	
	HP-UX	HP	9.0X w/s & J210 10.0 for K200	
	Digital UNIX (formerly OSF/1)	DEC	3.2	
	SGI IRIX	SGI 32 bit SGI 64 bit	5.3 (32 bit) 6.1 (64 bit)	
	AIX	IBM	3.2.5	
General Suite of Development Tools	SPARCworks	Sun Solaris	3.0.1	
	Debugger	Sun OS		
	Runtime Error Checker			
	Analyzer			
	Source Browser			
	FileMerge			
	Make Tool			
	SoftBench	HP-UX	4.0	
	Static Analyzer			
	Performance Analyzer			
	Debugger (DDE)			
	DEC FUSE	DEC	2.0	
	Builder (Motif I/F to make)		(might change when OS goes to 3.2)	
	Debugger (Motif I/F)			
	Editors (Motif I/F)			

	ProDev WorkShop (previously CaseVision or MegaDev) Debugger Build Analyzer Performance Analyzer Tester (code coverage analysis)	SGI IRIX 5.3 SGI IRIX 6.1	2.4 (for 5.3) 2.5.1 (for 6.1)	
	PowerBench	IBM AIX	2.0	
C++ Compilers	SPARCompiler C++	Sun	<u>3.0.1</u>	
	C++ SoftBench License C Developer's bundle (w/C,X,Motif) C++	HP	3.50	
	DEC FUSE C++ support C++ Class Browser DEC C++ C++ Compiler DEC C compiler Name demangler Incremental Linker DEC C++ class library DEC OSF/1 C Developers Extensions (see C compiler section below)	DEC	1.47	- native C++ compiler supporting templates and exception handling
	KAI C++ Compiler	SGI IRIX 5.3 SGI IRIX 6.1	2.04 1.0D	
	C Set ++	IBM	<u>2.1.4.0</u>	native C++ compiler supporting templates and exception handling; integrated with CDE
C Compilers	SPARCompiler C	Sun	3.0.1	ANSI and K&R
	HP-UX bundled C compiler is K&R only Purchased C compiler is ANSI and K&R	HP	9.77	
	DEC OSF/1 C Developers Extensions C compiler assembler decladebug and dbx SCCS,RCS,prof,imake,etc	DEC	3.0	
	C	SGI IRIX 5.3 SGI IRIX 6.1	3.19 (for 5.3) 6.1 (for 6.1)	
	C	IBM	3.2.5	
FORTTRAN 77	SPARCompiler FORTRAN	Sun	3.0.1	

		<u>SGI IRIX 5.3</u>	<u>6.1</u>	
		SGI IRIX 6.1	<u>6.0.2</u>	
FORTRAN 90	from Numerical Algorithms Group (NAG)	Sun	2.1 (NAG)	
		SGI IRIX 5.3	2.1 (NAG)	
	from SGI	SGI IRIX 6.1	6.1 (SGI)	
<u>FORTTRAN Checker</u>	<u>FORCHECK</u>	<u>Sun</u>	<u>11.13</u>	
Ada	SPARCompiler Ada (from Sun)	Sun	2.1	
	from SGI/Rational	SGI	6.2.3	
On-Line Documentation Viewer	Answer Book	SUN		
	HP Laserom	HP		
	BookReader	DEC		
	Insight	SGI		
	InfoExplorer	IBM		
Multithreaded Debugger	iMPact	SUN	2.0	
	DDE debugger	HP		in Softbench 4, CLI support in DDE in SoftBench 5, GUI support in DDE
	ladebug	DEC		only CLI commands to ladebug
	debugger	SGI		supported in ProDev/C++ bundle
	n/a	IBM		no date for support
Windows Emulation for DOS Applications on UNIX	SoftWindows	Sun	1.0	- used on developer Sun workstations
	<u>WABI</u>	<u>Sun</u>	<u>2.0</u>	- Used by the DAAC's
Security	Kerberos (Cygnus)	All	5b5	
	<u>Crack</u>	<u>HP</u>	<u>4.1</u>	<u>Public Domain, standalone.</u>
	<u>Npasswd</u>	<u>HP</u>	<u>1.2.4</u>	<u>Public Domain, standalone.</u>
	<u>SATAN</u>	<u>HP</u>	<u>1.1.1</u>	<u>Public Domain, standalone.</u>
	<u>TCP Wrappers</u>	<u>HP</u>	<u>7.3</u>	<u>Public Domain, standalone.</u>
	<u>Tripwire</u>	<u>HP</u>	<u>1.2</u>	<u>Public Domain, standalone.</u>

GUI Development	BuilderXcessory (Integrated Computer Solutions - (ICS))	Sun OS Solaris HPUX 9.0X DEC SGI IRIX	3.5.1	Motif GUI Builder from ICS, Include 3.5.1 Level 5 patch for BX & 3.5.1 Level 9 patch for code generator.
	GraphPak	same	1.0	
	EPak	same	2.5	Additional widgets for BX, Include patch to make TabStack Widget work with threads.
OSF /Motif for Development		Sun, HP, SGI, IBM	1.2.4	No need to specify for DEC platform as no release A subsystem needs motif for development.
OSF/Motif Windows Manager Runtime		Sun, HP, SGI, IBM	1.2.4	No need to specify for DEC platform as no release A subsystem needs motif for development.
Common Desktop Environment	CDE	Sun	1.0	Contains Motif 1.2.4
Graphics Visualization Tool	IDL	Sun, HP, SGI	4.0	
C++ Class Libraries	Rogue Wave Tools.h++	compile source	6.1	
	Rogue Wave Tools.h++ Pro	compile source	6.1	
	Rogue Wave Net.h++	compile source	1.0.1	
	Rogue Wave DBTools.h++	compile source	1.1.0	
	Hughes Class Libraries (HCL)	Sun, DEC	3.14 with patches through 158	
	libComponent.a (Douglas Young's Library)	All	1992	A SET Motif/C++ Wrapper classes Placed under configuration management to track modifications by ECS developers.
	HDF Libraries (NCSA)	All	4.0 Patch 1	Freeware in Clearcase

	IMSL (International Math and Statistics Library)	All*	2.0 (C ) 3.0 (FORTRAN)	*64 bit SGI not yet ported, also does not work with FORTRAN 90.
High Fidelity Memory Leak Detector	Purify	<u>Sun, HP</u>	<u>3.2</u>	- No support for DEC or IBM - Also provides Code Coverage Analysis (See Below)
	(from Pure Software)	SGI IRIX 5.3	3.1	
	<u>Insure++</u>	<u>DEC, IBM</u>	<u>3.0.1</u>	
Code Coverage Analysis	PureCoverage (from Pure Software)	Sun, HP	<u>1.2</u>	No support for SGI, DEC or IBM.
	<u>Insure++</u>	<u>SGI,DEC,IBM</u>	<u>3.0.1</u>	
Requirements Tracing	Requirements and Traceability Management (RTM) - (from Marconi)		2.3.3	
Object Oriented Design Tool	Software Through Pictures/Object Modeling Technique (StP/OMT) -(from Interactive Development Environments (IDE)) StP/OMT Product Sets:			
	StP Core Query & Reporting Object Management Administration RDBMS		1.3	
	OMT		2.0.0.1	
	Class Capture (for reverse engineering)		2.0	
Configuration Management	ClearCase (from Atria)	Most UNIX	2.02	
	XRP II UNIFY Relational Database (for XRP II) Physical Network Manager	Solaris 2.4 Solaris 2.4 HP UX 9.0X	3.0 UNI5.0.7.2.0 2.1	
Source-Code Reformatter	<i>Being considered, but no current product</i>			To format code to meet coding standards and adhere to one style
Naming-Convention Checker	<i>Being considered, but no current product</i>			To enforce ECS naming standards

Dependency Checker	<i>Being considered, but no current product</i>			To report on what other libraries or executables will be affected by a build, and notify affected parties by email.. See note under Makefile generator.
Automatic Makefile Generator	<i>Being considered, but no current product</i>			This (and the dependency checker) cannot be used unless the directory structure chosen is consistent across development, test and maintenance environments. That must come first.
Distributed Defect Tracking System	DDTS (from Pure Software)	Sun OS Solaris HP-UX DEC SGI IRIX 5.3 IBM	3.1.12	
Code Complexity Checker	Battlemap Analysis Tool (BAT) (from McCabe & Associates)	Sun OS Solaris HP DEC SGI IBM	5.0 (see comment)	- Used to generate metrics on code complexity.
Testing Software	XRunner (from Mercury Interactive)		3.0e & 3.0f	
	LoadRunner		1.6	
Network Modeling Tool	BONeS - (from Alta Group of Cadence Design, SPSI is local agent)		2.6	
Object Oriented DCE (1.0.3)	OODCE (from Hewlett Packard)	HP	1.5.1	
		Sun Solaris	1.5.1	Using Solaris 2.3 for Release A, Solaris 2.4 port in progress.
		<u>SGI (IRIX 5.3)</u>	<u>N/A</u>	<u>Ported for ECS by HP.</u>
		<u>DEC</u>	<u>N/A</u>	<u>Ported for ECS by HP.</u>
DCE Application Development Toolkit	from Transarc	Sun	1.0.3a	
	from HP	HP	1.2.1	
	from DEC	DEC	1.3	

	from SGI	SGI	1.02	
	from IBM	IBM	1.3 (& 1.2)	
DCE Client and Server Software	from Transarc	Sun	1.0.3a	corresponds to OSF rev 1.0.3a
	from HP	HP	1.2.1	corresponds to OSF rev 1.0.3a
	from DEC	DEC	1.3	corresponds to OSF rev 1.0.3a
	from SGI	SGI	1.02	corresponds to OSF rev 1.0.2
	from IBM	IBM	1.3 (& 1.2)	1.3 corresponds to OSF rev 1.0.3a
<u>DCE Cell Management</u>	<u>HAL DCE Cell Manager</u>	<u>HP</u>	<u>1.1</u>	
RDBMS	Sybase 1) Sybase SQL server 2) Open Client/C 3) Embedded SQL/C 4) SA Companion 5) SQL Monitor 6) Open Gateways 7) Replication Server 8) SQR Workbench 9) SQS 10) SQR Report Writer	Sun OS Solaris HP-UX DEC SGI IBM	10.01	Current version is 10.02 AutoSys requires 10.1 of Sybase
	Illustra (Illustra Technologies)	Sun (Solaris)	3.2	Now owned by Informix
Search Engine	TOPIC (Verity)	Sun (Solaris)	1.0.2	
Access Server	NetScape Commerce Server (NetScape)	Sun (Solaris)	1.1.2	Purchased through Illustra, version number being obtained by HTSC.
ER Based Database Modeling Tool	S-Designor (from PowerSoft)	PC Windows	4.2.0	DOS based, but will work under SoftWindows emulation on Sun
<u>Document Software</u>	FrameMaker	PC	5.0	
		MAC	5.0	
		SUN	5.0	
<u>Editing and Viewing Software</u>	<u>GhostView</u>	<u>Sun</u>	<u>1.5</u>	
	<u>EMACS</u>	<u>All</u>	<u>19.28.1</u>	
	<u>Adobe Acrobat</u>	<u>Sun</u>	<u>1.0</u>	

	<u>Xedit</u>	<u>All</u>	<u>1.0,</u> <u>3.11-6 (IRIX 5.3)</u>	
SNMP Agent	Peer	All	1.7	Extensible SNMP agent kit (code)
HTTP Server	NCSA HTTPD (freeware)		1.4.2	used on EP6
	CERN HTTPD		3.0	used in Release A Ingest
Processing COTS	AutoSys		3.2	Requires Sybase 10.01
	AutoXpert		1.0	
Internet Browsers	NetScape		2.0	Current Beta Release
	NCSA Mosaic		2.7b1	
Help Desk Software	Remedy	HP UX 9.0X	2.02	
Network Management	HP OpenView	HP UX 9.0X	4.0	
Framework	Tivoli	HP UX 9.0X	2.0.2	
Network Backup	Networker	All	4.1.1	
File Storage Management System	AMASS	All	4.5.1	